



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL PHOTOGRAPHIC INTERPRETATION CENTER
VINT HILL FARM STATION
P.O. 1587, WARRENTON, VIRGINIA 22186

April 26, 1988

RECEIVED

MAY 03 1988

S & M BRANCH

SUBJECT: Transmittal of Results of Analysis for Northernmost Lagoon
at Bridgeport Rental & Oil, NJ (PIC #88103)

FROM: Donald Garofalo *Donald Garofalo*
Regional Coordinator
Environmental Photographic Interpretation Center
Advanced Monitoring Systems Division

TO: Carol Price DiGuardia
Remote Sensing Coordinator
Region 2

We have completed our historical aerial photo analysis of the northernmost lagoon at the Bridgeport Rental and Oil Site in Logan Township, NJ, in response to your recent request dated March 9, 1988. The results of our analysis indicate that in 1957 there is no evidence of waste disposal at the lagoon. In 1959 there is evidence of probable waste disposal and in 1963 there is evidence of definite waste disposal.

This completes our work on this project. If you have any questions about it, please contact Don Fannelli, the Analyst, or me at FTS 557-3110.

cc:
Eugene P. Meier, AMD

318155



Kahn

MAR 0 3 1988

Bridgeport Rental & Oil Services
Aerial Photography Interpretation

Jonathan Josephs, Chemical Engineer
Site Compliance Branch

Carol DiGuardia
Surveillances & Monitoring Branch

This memorandum is to request clarification of the interpretation of aerial photographs of the Bridgeport Rental & Oil Services site in Logan Township, NJ. The photos and narrative interpretation can be found in EPIC's March 1982 report (#TS-PIC-2014).

The aerial photos from 1957 onward show three ponds which still exist. Only the northernmost pond is currently highly contaminated, being covered by layer of oily material. The more recent photos clearly show this oily layer in the northernmost pond. However, the difference in the appearance between the ponds is less clear in the older photos. The overlays for all photos identify the northernmost pond as a "waste lagoon". However, it is not clear from the narrative for the 1957 photo whether this identification is made based on the photographic imagery or on the current condition of the lagoon.

Historical records indicate that in 1957 all three ponds were owned by a sand and gravel company. In 1958, the northernmost pond and surrounding property were sold to a waste oil recycler, while the southern ponds continued to be used for sand and gravel production. In the 1957 photo, the northern pond appears only slightly darker than the other ponds.

This memorandum is to request clarification from EPIC as to the dates when the northernmost lagoon can first be identified as a possible, probable or definite waste lagoon based on the historical photos. I have discussed this matter with Tom Osberg at EPIC who suggested that I submit my request in writing through the Regional coordinator.

cc: Peter Moss, PSE
Jonathan Kahn, ORC ✓



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VINT HILL FARM STATION
P.O. 1587, WARRENTON, VIRGINIA 22186

November 4, 1988

SUBJECT: Transmittal of Memo Report of Site Analysis for
Bridgeport Oil and Rental Services Site (TS-PIC-2014)

FROM: Donald Garofalo, Regional Coordinator
Environmental Photographic Interpretation Center
Advanced Monitoring Systems Division

TO: Jonathan Josepfs
Site Compliance Branch
Region 2

Attached is one copy of our re-analysis summary for the subject site. Photography for the period 1940 through 1959 was used in the compilation of this report. The following dates are represented:

May 10, 1940
May 15, 1957

April 3, 1959
October 19, 1959

This completes our work on this project. If you have any questions about it, please contact Don Fanelli, the analyst, or me at FTS 557-3110.

Attachments

bionetics

November 3, 1988

From: Don Fanelli

To: Jonathan Josephs

The following is a brief summary of my analysis of the Bridgeport Oil and Rental Services site for the years 1940, 1957 and 1959 as related to our telephone conversations on November 2, 1988. The analysis includes comparisons with and references to EPIC report TS-PIC-2014 (March 1982) and should be used in conjunction with that report.

May 10, 1940 - No evidence of waste disposal is visible. A large excavation is seen onsite. The dark tone within the excavation appears to be vegetation, not liquid, as stated in the previous report. A small area of medium-toned liquid seen in the northern portion of the excavation is probably pooled rainwater. The ground scars annotated in the previous report appear to be related to excavation/extraction activities and not to dumping activities as suggested in the report.

May 15, 1957 - No evidence of waste disposal is seen in the northernmost lagoon area. The excavation seen in 1940 has been filled; however, there is no indication that waste material was used as fill. The dark tone of the northernmost lagoon is comparable to that of nearby bodies of water. The lighter tones of the two adjacent lagoons to the south are probably due to turbidity from a sand and gravel operation that appears to be active. The ground staining (annotated in the previous report) at the northwest and southwest corners of the northernmost lagoon are more likely vegetation and moisture, respectively, than staining. The area of possible dumping northeast of the northernmost lagoon appears to be a continuation of the lagoon's eastern berm, possibly expanded by the addition of material excavated from the suspected drainage path.

April 3, 1959 - Evidence of probable liquid waste disposal is seen. Three areas of very dark liquid are visible: the easternmost appears to be a liquid-filled pit; the central area appears to be a smaller liquid-filled pit from which liquid has overflowed southward; and the westernmost area appears to be additional overflow from the central area (no signature of a pit is seen). The higher elevation of these three areas indicates it is unlikely that the presence of the liquid is due to seepage as stated in the previous report. In addition, the northwest corner and the eastern extension (since 1957) of the northernmost lagoon appear significantly darker than the rest of the lagoon, suggesting possible dumping or discharging of a dark liquid into these two areas. An access road (not annotated) leads to the edge of the extension area.

October 19, 1959 - Three areas of very dark probable liquid are visible (two of these are annotated in the previous report as probable standing liquid). The area of probable liquid not annotated in the previous report appears to be the easternmost area of liquid (or pit) seen on the April 3, 1959 photography. The other two areas of liquid seen in April 1959 are no longer visible. The other two areas of probable liquid seen in this coverage are new since April 3, 1959; the northern of these two areas appears to be a pit containing liquid and the other area appears to have resulted from overflow of the easternmost area of liquid (or pit). The lagoon is now uniformly dark-toned (relative to April 3).